

NMAP

Misc

- 6: Enable IPv6 scanning
- A: Enable OS detection, version detection, script scanning, and traceroute
- datadir <dirname>: Specify custom Nmap data file location
- send-eth/--send-ip: Send using raw ethernet frames or IP packets
- privileged: Assume that the user is fully privileged
- unprivileged: Assume the user lacks raw socket privileges
- V: Print version number
- h: Print this help summary page.

Target Specification

- iL <inputfilename>: Input from list of hosts/networks
- iR <num hosts>: Choose random targets
- exclude <host1[,host2][,host3],...>: Exclude hosts/networks
- excludefile <exclude_file>: Exclude list from file

Host Discovery

- sL: List Scan - simply list targets to scan
- sn: Ping Scan - disable port scan
- Pn: Treat all hosts as online -- skip host discovery
- PS/PA/PU/PY: TCP SYN/ACK, UDP or SCTP discovery to given ports
- PE/PP/PM: ICMP echo, timestamp, and netmask request discovery probes
- PO[protocol list]: IP Protocol Ping
- n/-R: Never do DNS resolution/Always resolve [default: sometimes]
- dns-servers <serv1[,serv2],...>: Specify custom DNS servers
- system-dns: Use OS's DNS resolver
- traceroute: Trace hop path to each host

Output

- oN/-oX/-oS/-oG <file>: Output scan in normal, XML, s|<|r|t|k|d|d|i|3, and Grepable format, respectively, to the given filename.
- oA <basename>: Output in the three major formats at once
- v: Increase verbosity level (use -vv or more for greater effect)
- d: Increase debugging level (use -dd or more for greater effect)
- reason: Display the reason a port is in a particular state
- open: Only show open (or possibly open) ports
- packet-trace: Show all packets sent and received
- iflist: Print host interfaces and routes (for debugging)
- append-output: Append to rather than clobber specified output files
- resume <filename>: Resume an aborted scan
- noninteractive: Disable runtime interactions via keyboard
- stylesheet <path/URL>: XSL stylesheet to transform XML output to HTML
- webxml: Reference stylesheet from Nmap.Org for more portable XML
- no-stylesheet: Prevent associating of XSL stylesheet w/XML output

Scan Techniques

- sS/sT/sA/sW/sM: TCP SYN/Connect()/ACK/Window/Maimon scans
- sU: UDP Scan
- sN/sF/sX: TCP Null, FIN, and Xmas scans
- scanflags <flags>: Customize TCP scan flags
- sI <zombie host[:probeport]>: Idle scan
- sY/sZ: SCTP INIT/COOKIE-ECHO scans
- sO: IP protocol scan
- b <FTP relay host>: FTP bounce scan

Firewall/IDS Evasion & Spoofing

- f; --mtu <val>: fragment packets (optionally w/given MTU)
- D <decoy1,decoy2[,ME],...>: Cloak a scan with decoys
- S <IP_Address>: Spoof source address
- e <iface>: Use specified interface
- g/--source-port <portnum>: Use given port number
- proxies <url1[,url2],...>: Relay connections through HTTP/SOCKS4 proxies
- data <hex string>: Append a custom payload to sent packets
- data-string <string>: Append a custom ASCII string to sent packets
- data-length <num>: Append random data to sent packets
- ip-options <options>: Send packets with specified ip options
- ttl <val>: Set IP time-to-live field
- spooof-mac <mac address/prefix/vendor name>: Spoof your MAC address
- badsum: Send packets with a bogus TCP/UDP/SCTP checksum

Port Specification & Scan Order

- p <port ranges>: Only scan specified ports
- exclude-ports <port ranges>: Exclude the specified ports from scanning
- F: Fast mode - Scan fewer ports than the default scan
- r: Scan ports sequentially - don't randomize
- top-ports <number>: Scan <number> most common ports
- port-ratio <ratio>: Scan ports more common than <ratio>

Service/Version Detection

- sV: Probe open ports to determine service/version info
- version-intensity <level>: Set from 0 (light) to 9 (try all probes)
- version-light: Limit to most likely probes (intensity 2)
- version-all: Try every single probe (intensity 9)
- version-trace: Show detailed version scan activity (for debugging)

Timing & Performance

- T<0-5>: Set timing template (higher is faster)
- min-hostgroup/max-hostgroup <size>: Parallel host scan group sizes
- min-parallelism/max-parallelism <numprobes>: Probe parallelization
- min-rtt-timeout/max-rtt-timeout/initial-rtt-timeout <time>: Specifies probe round trip time.
- max-retries <tries>: Caps number of port scan probe retransmissions.
- host-timeout <time>: Give up on target after this long
- scan-delay/--max-scan-delay <time>: Adjust delay between probes
- min-rate <number>: Send packets no slower than <number> per second
- max-rate <number>: Send packets no faster than <number> per second

Script Scan

- sC: equivalent to --script=default
- script=<Lua scripts>: <Lua scripts> is a comma separated list of directories, script-files or script-categories.
- script-args=<n1=v1,[n2=v2,...]>: provide arguments to scripts
- script-args-file=filename: provide NSE script args in a file
- script-trace: Show all data sent and received
- script-updatedb: Update the script database.
- script-help=<Lua scripts>: Show help about scripts. <Lua scripts> is a comma-separated list of script-files or script-categories.

OS Detection

- O: Enable OS detection
- osscan-limit: Limit OS detection to promising targets
- osscan-guess: Guess OS more aggressively



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